

ABSTRACT OF THE DISCLOSURE

The invention relates to a tonometric device (20) for examination of respiratory insufficiency and regional tissue perfusion failure in patients, comprising a distal end (22), a section (24) to be introduced into the body, and a fixing part (3). The section (24) to be introduced comprises a first tube (1) to which an additional tubing (4) is connected. A second tube (2) is arranged substantially parallel with the first tube (1). At least the section (24) of the first tube (1) is made of a material permeable for gases, especially for carbon dioxide, but substantially impermeable for body fluids, preferably of silicone rubber. The device does not comprise any balloon, it can be introduced into the patient stomach without preliminary preparation, and is useful for examination of premature babies.